

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
21 May 2004 (21.05.2004)

PCT

(10) International Publication Number  
**WO 2004/041863 A2**

(51) International Patent Classification<sup>7</sup>: **C07K 16/00**

(21) International Application Number: PCT/BE2003/000194

(22) International Filing Date: 7 November 2003 (07.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/425,073	8 November 2002 (08.11.2002)	US
60/425,063	8 November 2002 (08.11.2002)	US
03447005.4	10 January 2003 (10.01.2003)	EP
PCT/EP03/06581	23 June 2003 (23.06.2003)	EP
PCT/EP03/07313	8 July 2003 (08.07.2003)	EP

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **ABLYNX N.V.** [BE/BE]; Technologiepark 4, B-9052 Zwijnaarde (BE).

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **BEIRNAERT, Els** [BE/BE]; Lentestraat 22, B-9000 Gent (BE).

(74) Agent: **BRANTS, Johan, Philippe, Emi**; De Clercq, Brants & Partners, E. Gevaertdreef 10a, B-9830 Sint-Martens-Latem (BE).

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *without international search report and to be republished upon receipt of that report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

WO 2004/041863 A2

(54) Title: SINGLE DOMAIN ANTIBODIES DIRECTED AGAINST INTERFERON- GAMMA AND USES THEREFOR

(57) **Abstract:** The present invention relates to polypeptides derived from single domain heavy chain antibodies directed to interferon gamma. It further relates to single domain antibodies that are Camelidae VHs. It further relates to methods of administering said polypeptides. It further relates to protocols for screening for agents that modulate the IFN-gamma receptor, and the agents resulting from said screening.